

Figure 1

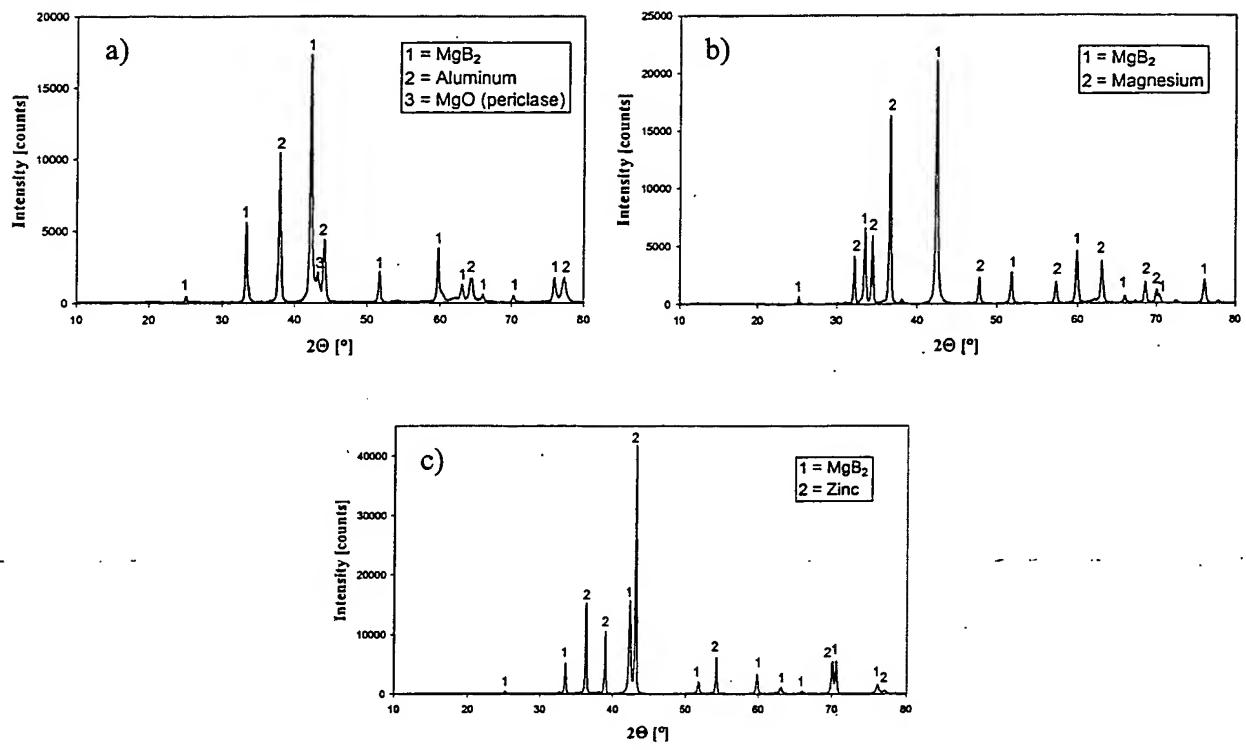


Figure 2

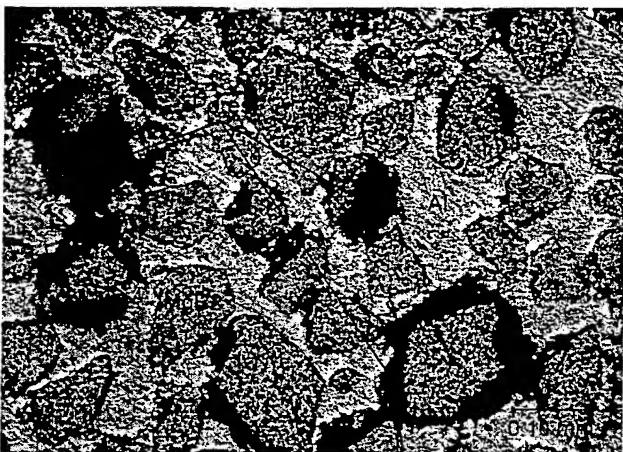


Figure 3

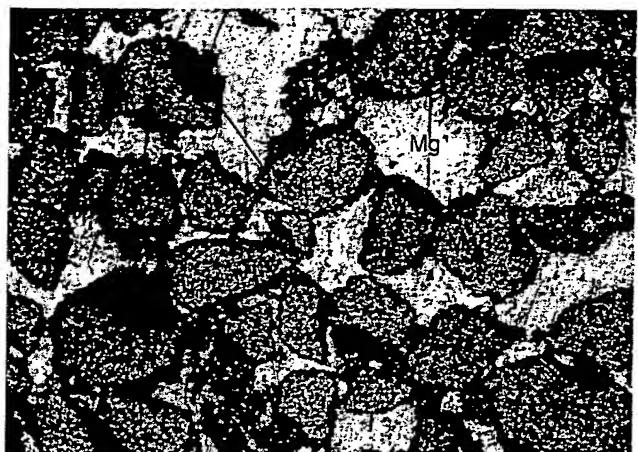


Figure 6

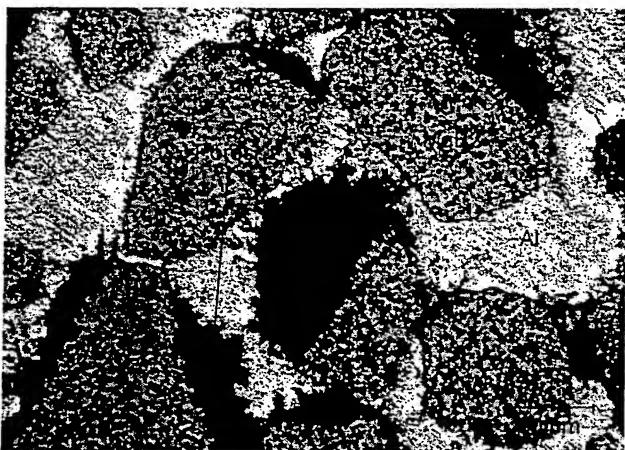


Figure 4



Figure 7

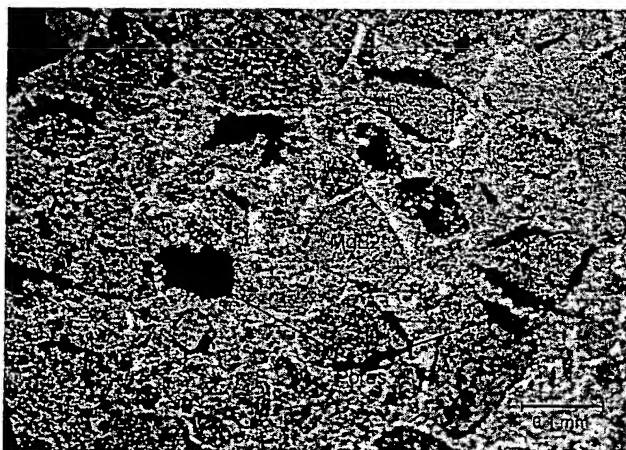


Figure 5



Figure 8

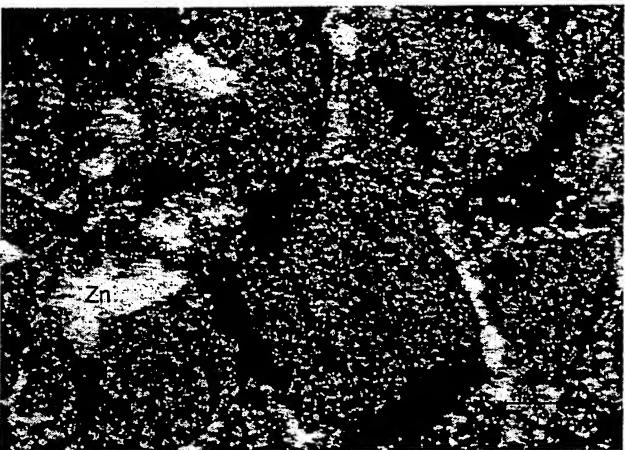


Figure 9



Figure 10

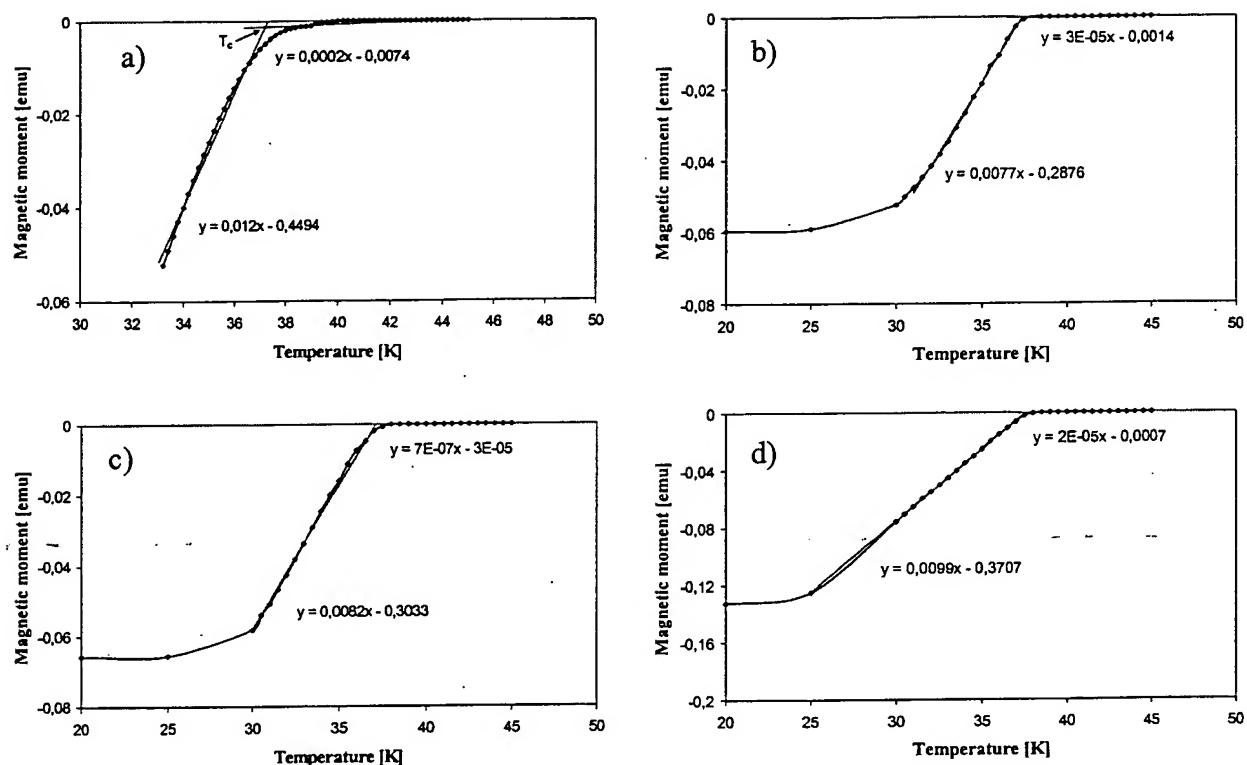


Figure 11

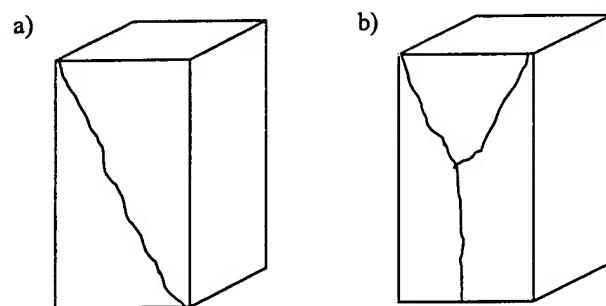


Figure 12

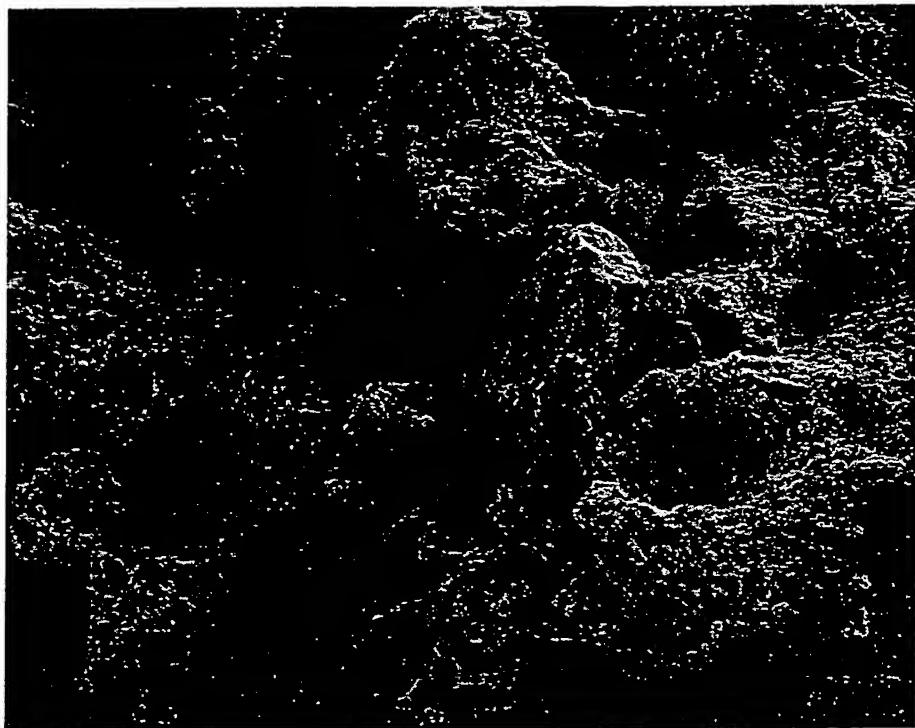


Figure 13

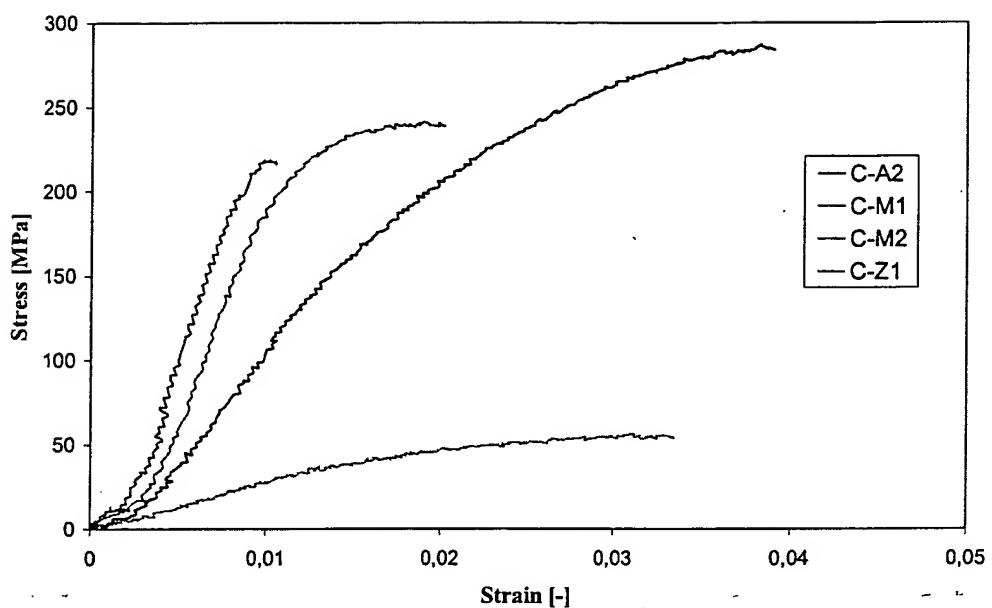


Figure 14

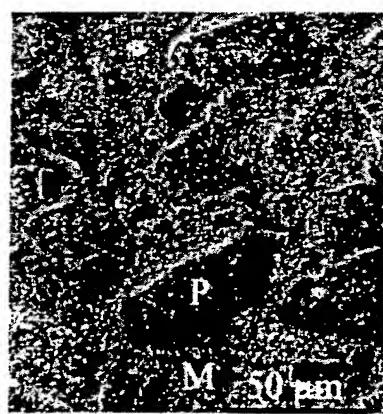


Figure 15

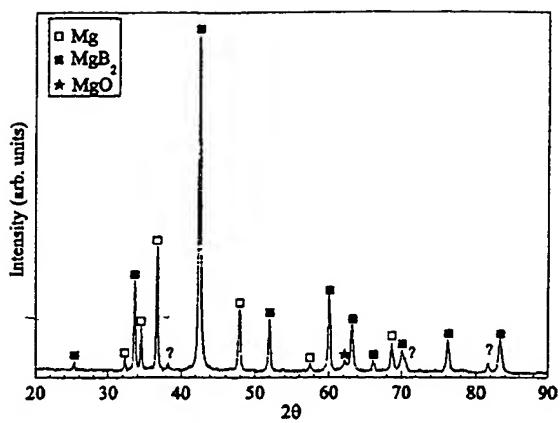


Figure 16

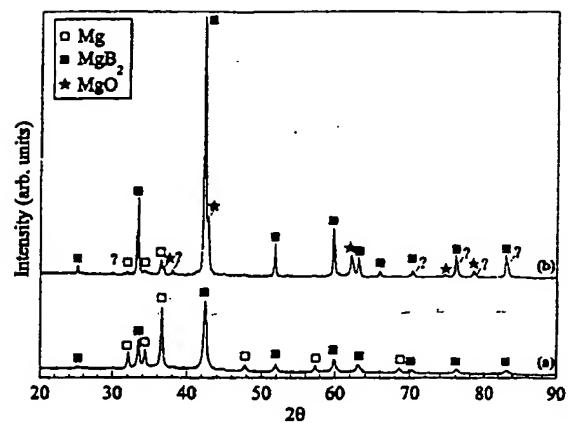


Figure 18

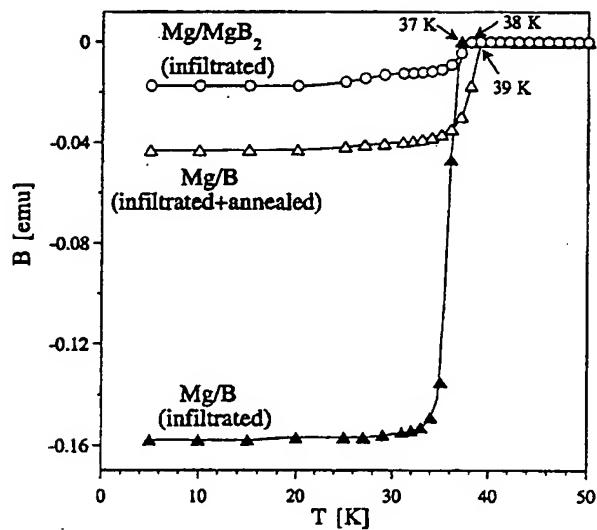


Figure 17

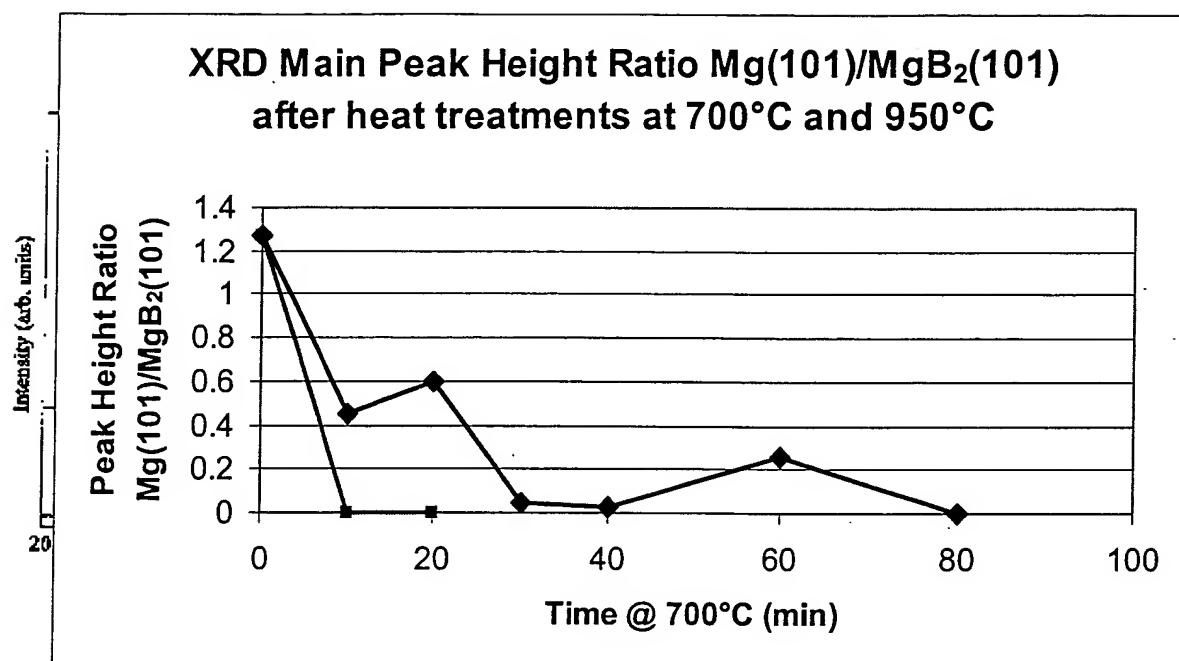


Figure 19

XRD Main Peak Height Ratio $MgB_4(121)/MgB_2(101)$ after heat treatment at 950°C for varying time

◆ Stoichiometric ■ Excess Boron

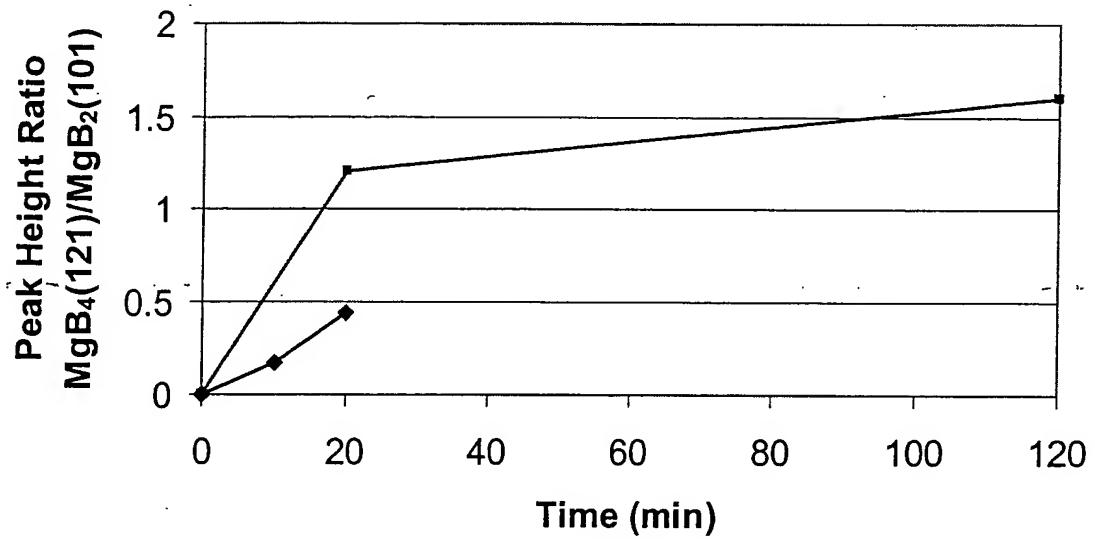


Figure 20

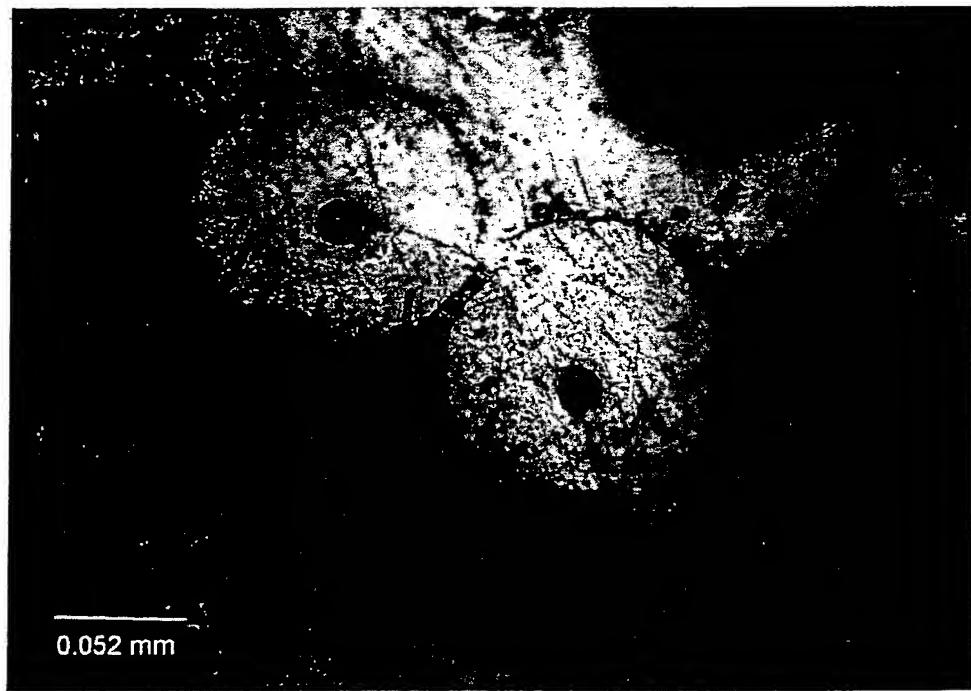


Figure 21

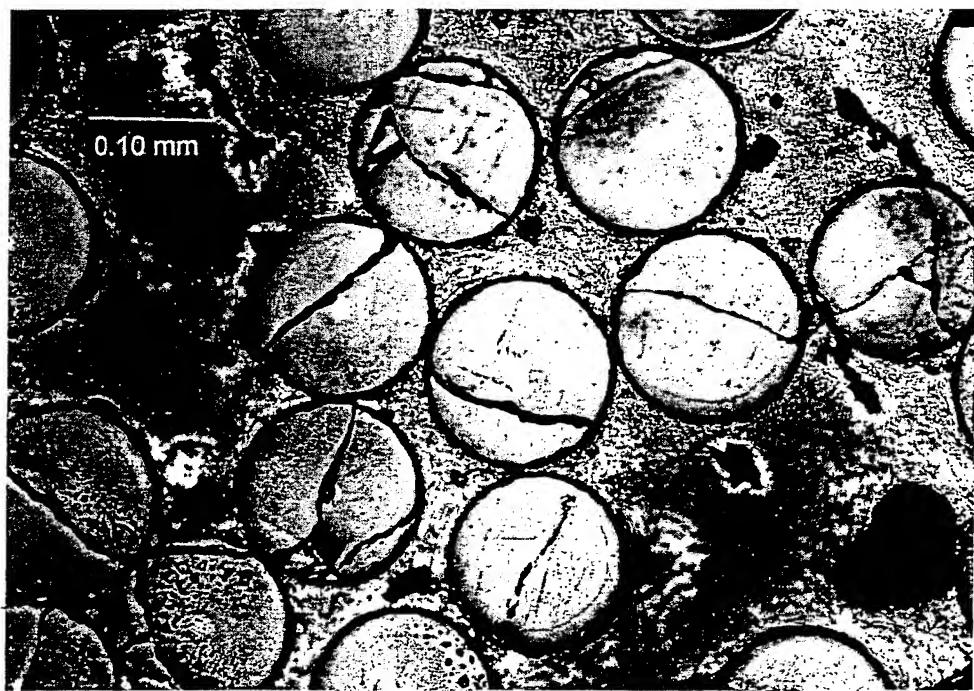


Figure 22

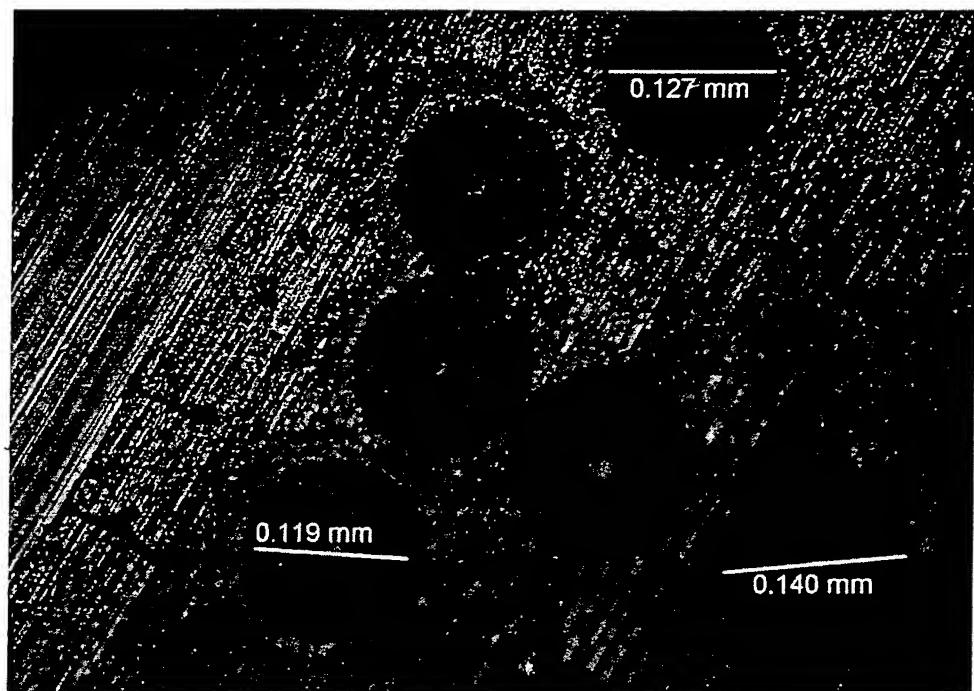


Figure 23

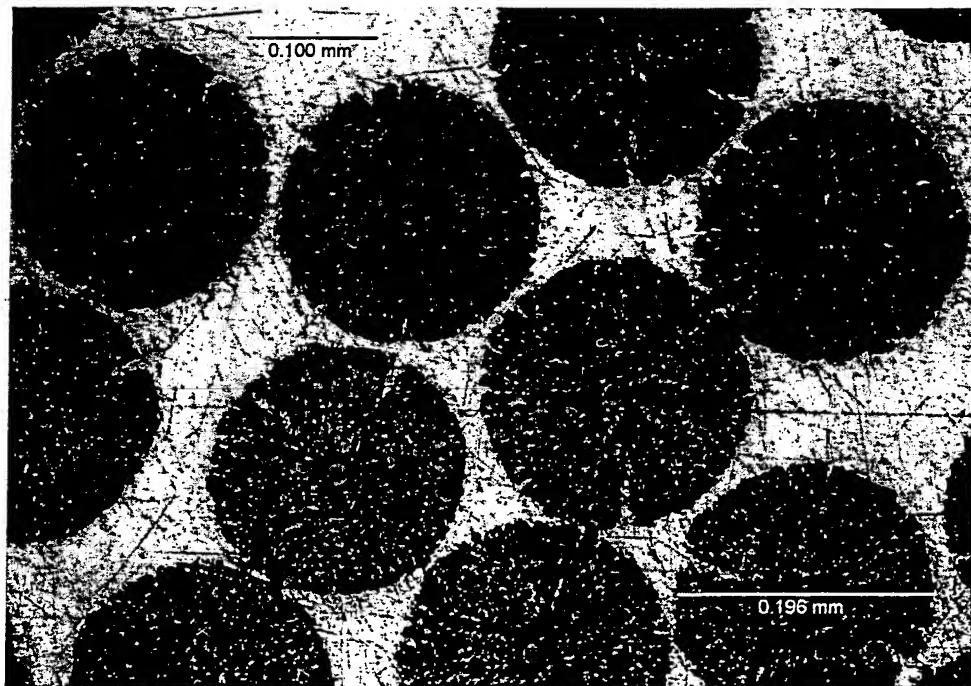


Figure 24



Figure 25

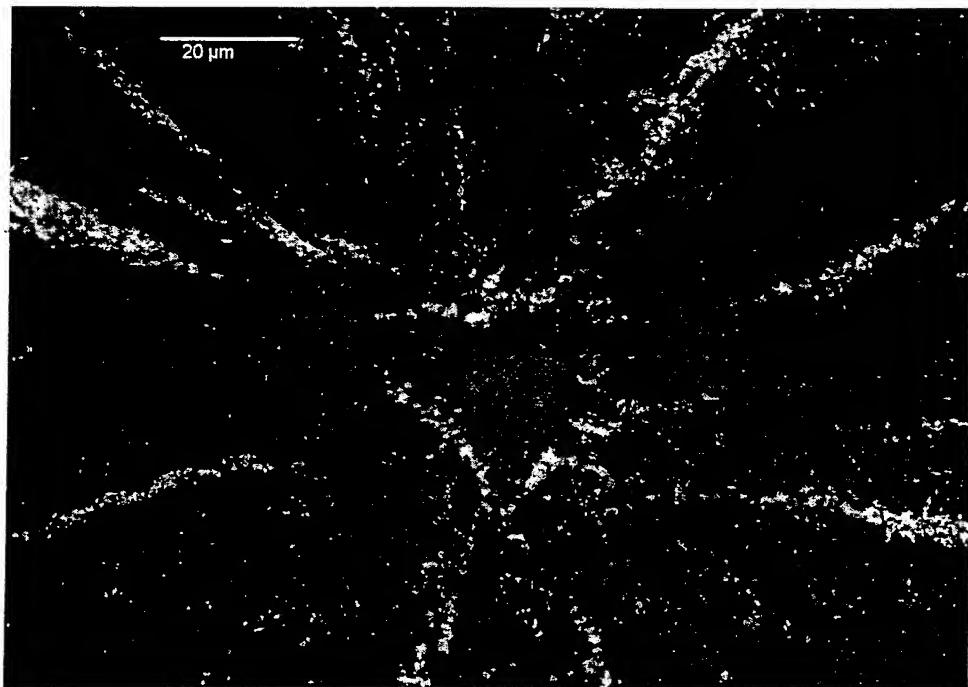


Figure 26

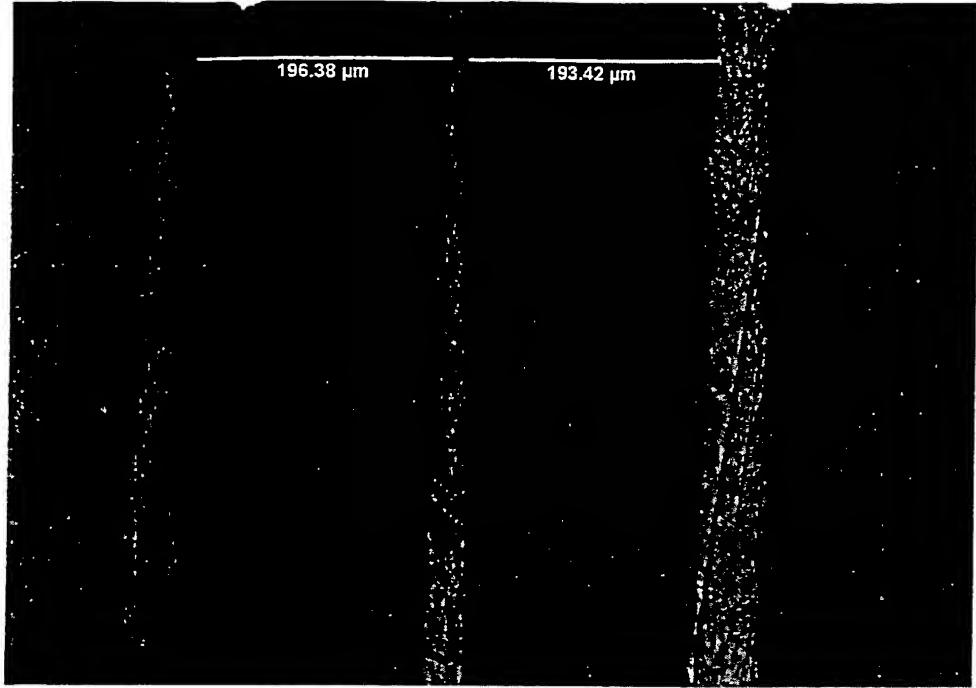
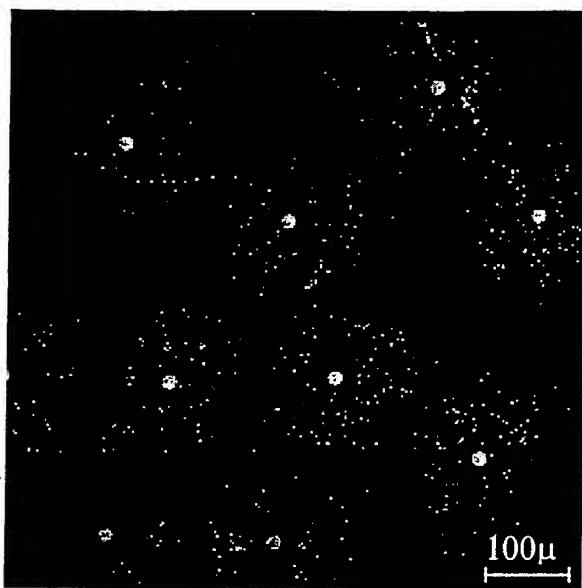
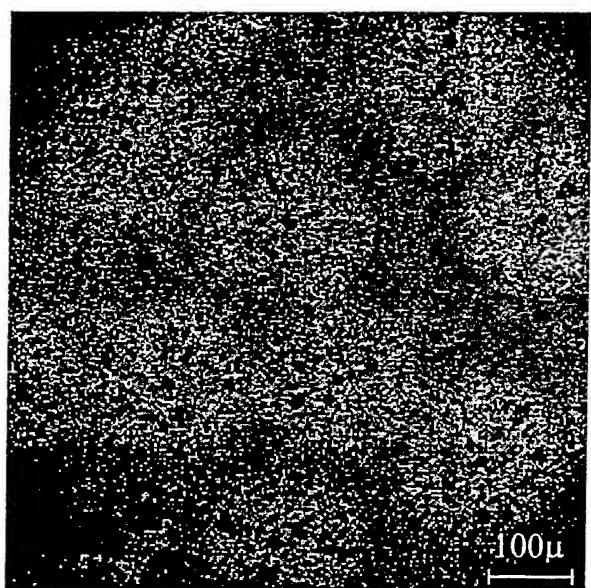


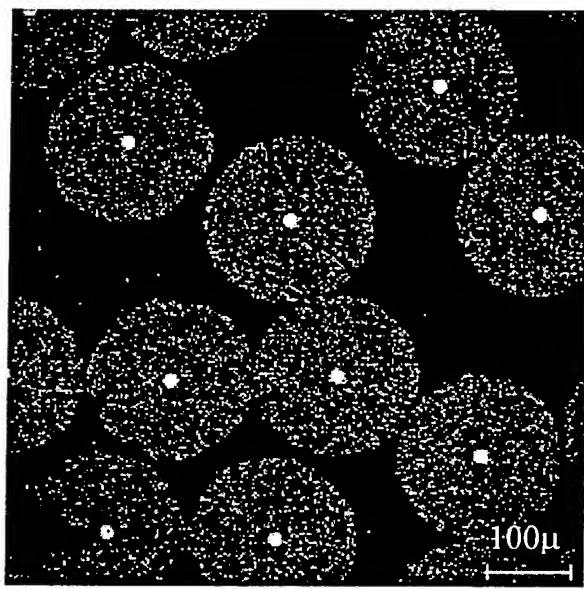
Figure 27



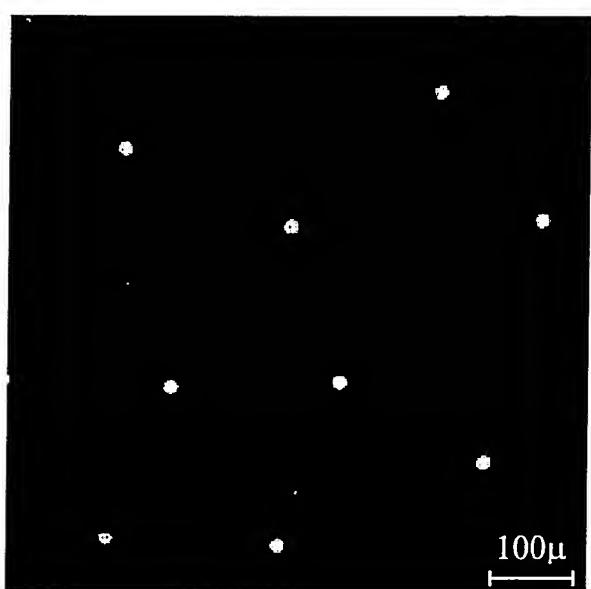
(a)



(b)

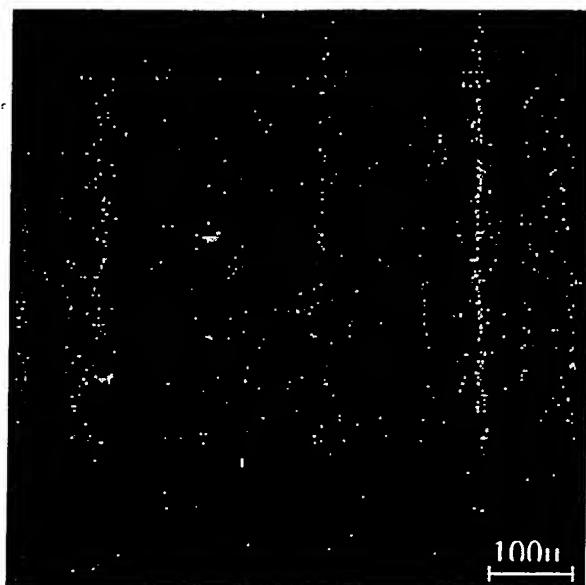


(c)

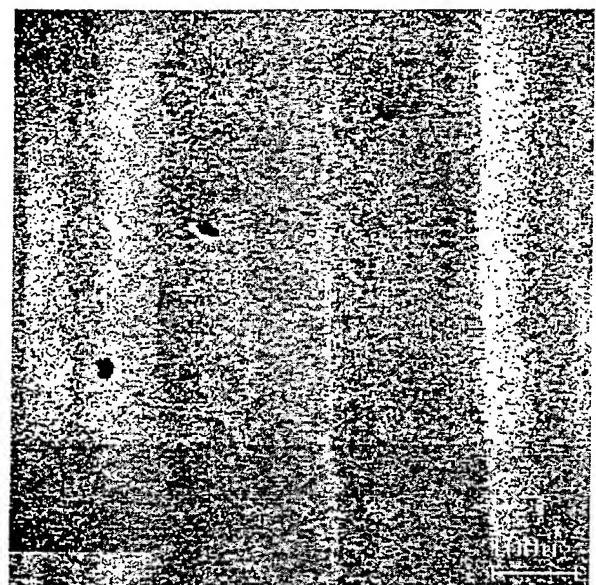


(d)

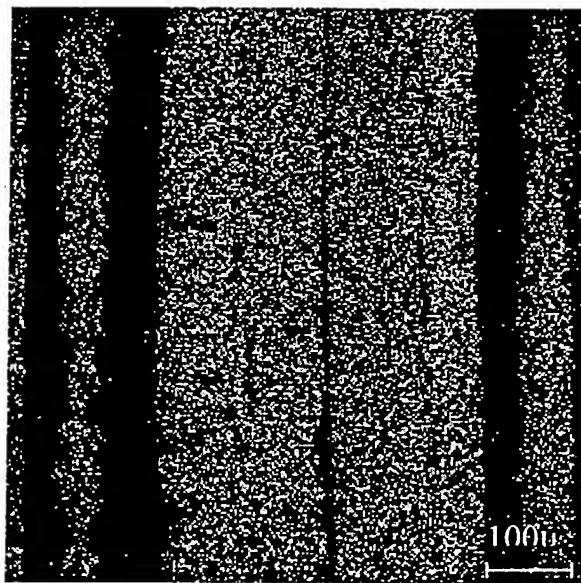
Figure 28



(a)



(b)



(c)

Figure 29

XRD of magnesium infiltrated and in-situ reacted boron fibers (2hrs @ 950°C)

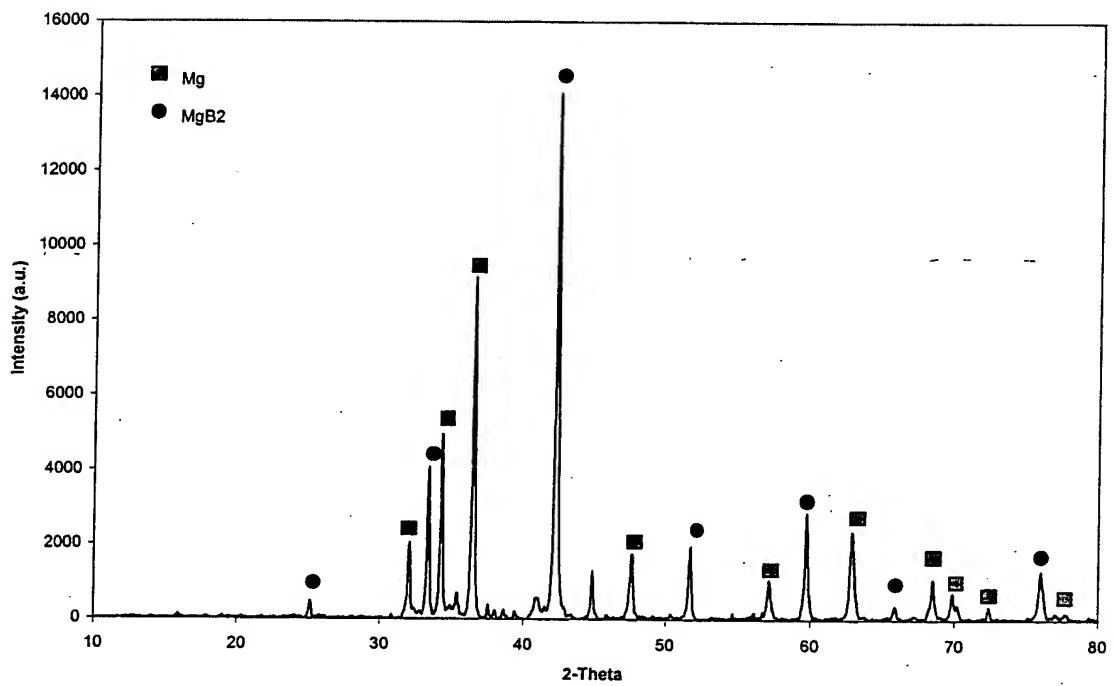


Figure 30